

Vibratory Rollers DV201 - DV202 - DV204

Service Manual

Cre 9-54980

CASE

DV201 - DV202 - DV204

Vibratory Rollers

CONTENT

1	GENERAL INSTRUCTIONS	3
	INTRODUCTION	3
	SAFETY INSTRUCTIONS	4
	ENVIRONMENTAL MEASURES AND HEALTH PRECAUTIONS	7
	PRODUCT IDENTIFICATION	9
	TORQUES SPECIFICATIONS	12
	SERVICING INSTRUCTIONS	15
	HOURMETER	15
	SERVICING INTERVAL	16
	FLUIDS AND LUBRICANTS	18
	FLUIDS AND LUBRICANT CAPACITIES AND SPECIFICATIONS	21
2	DESCRIPTION OF THE MACHINE	23
3	THE ENGINE	37
	REMOVAL OF THE ENGINE FROM THE MACHINE WITH THE TRAVEL PUMP	39
4	DRUM	69
	REMOVAL OF THE HYDRAULIC MOTOR OF VIBRATION	69
	REMOVAL OF THE HYDRAULIC MOTOR OF TRAVEL	81
	REPLACEMENT OF RUBBERIZED METAL PIECES ON THE DRUM	107
	REPLACEMENT OF THE SEAL ON THE DAMPING PLATE ON THE MACHINE	139
	REMOVAL OF DRUMS FROM THE FRAME OF THE MACHINE	153
	REMOVAL OF THE ECCENTRIC FROM THE DRUM	195
	INSTALLATION OF THE DRUM ON THE FRAME OF THE MACHINE	207
5	STEERING JOINT	217
	REMOVAL OF THE STEERING JOINT FROM THE MACHINE	217
	REMOVAL OF THE STEERING JOINT	231
	INSTALLATION OF THE STEERING JOINT	241
6	HYDRAULICS	253
	REMOVAL OF THE TRAVEL PUMP AND THE CLUTCH	253
	REMOVAL OF THE PUMPS OF VIBRATION AND OF STEERING	271
	REMOVAL OF THE OIL COOLER	281
	REMOVAL OF STEERING HYDRAULIC MOTOR FROM THE MACHINE	295
	REMOVAL OF THE STEERING HYDRAULIC MOTOR	303
	INSTALLATION OF THE STEERING HYDRAULIC MOTOR	309
	REMOVAL OF THE SERVOSTEERING	313
	REMOVAL OF THE HYDRAULIC TANK	319
	REPLACEMENT OF THE ELECTROMAGNET VALVE OF VIBRATION ON THE MACHINE	331
	REMOVAL OF THE HYDRAULIC LOOP FILTER	335
	REPLACEMENT OF FILTER CARTRIDGE AND OIL	339
	DISASSEMBLY OF SUCTION STRAINER	345
	SCHEMATICS OF THE HYDRAULIC LOOP	349
	HYDRAULIC OF DRIVE	352
	LINEAR VALVES	354
	HYDRAULIC OF VIBRATION	355
	HYDRAULIC OF STEERING	358
	FLUSHING AND DRAIN	360
7	CONTROL OF GAS	361
	REMOVAL OF BOWDEN CABLE OF GAS CONTROL	361
	REMOVAL OF TRAVEL LEVER ON THE CONTROL PANEL	365
	REMOVAL OF TRAVEL PULL ROD	373
8	PLATFORM	383
	REMOVAL OF THE PLATFORM	383
	REMOVAL OF RUBBERIZED METAL PIECES OF THE PLATFORM	389

DV201 - DV202 - DV204

Vibratory Rollers

CONTENT

9 THE SEAT	397
REMOVAL OF THE SWITCH ON THE SEAT	397
10 THE WATER TANK	405
REMOVAL OF THE FRONT TANK FROM THE FRAME OF THE MACHINE	405
REMOVAL OF THE REAR TANK FROM THE FRAME OF THE MACHINE	409
11 SPRINKLING	415
REMOVAL OF THE SPRINKLING PUMP	415
12 ROPS FRAME	419
REMOVAL OF THE PROTECTIVE ROPS FRAME	419
13 ELECTRICAL WIRING	423
FUSE BOX	425
BATTERIES	427
EXCHANGE BULB	429
ALTERNATOR	435
STARTER	439
SCHEME OF THE ELECTRICAL INSTALLATION	443
FUNCTIONAL DESCRIPTION	448
14 APPENDICES	453
TEST POSTS	453
TOWING THE MACHINE	455
TROUBLESHOOTING	463
LIST FIXTURES	483

INTRODUCTION

This series of Vibratory Rollers is suitable for compaction of all kinds of ground and for large and average-scale site preparation in highway construction (construction of highways, railways, airports), in hydro-engineering (construction of dams), in building construction (industrial areas, ports), and the like.

These machines are manufactured in compliance with the latest developments and standards, which ensure their safe function.

If the machine is used incorrectly, by untrained operators or for other purposes than those stipulated within, there is a danger of an accident or damage to the equipment or injury to personnel.

The main purpose of this manual is to give the information necessary for carrying out assembly and disassembly of the machine as well as service repairs of main assemblies of the equipment. It contains technical and installation data, instructions on how to adjust the machine and how to use special tools, fixtures and aids.

The manufacturer continuously seeks to make product improvements on the basis of experience and latest developments in the field.

For this reason, the manufacturer may make some changes in drawings, descriptions and designs in this manual.

SAFETY INSTRUCTIONS

GENERAL SAFETY INSTRUCTIONS

The following safety instructions must be observed by ALL personnel repairing the machine.

1. Repairs may be carried out by skilled, trained and experienced personnel only.
2. When performing repairs, always use our service manual. Special instructions for the assembly work are given in individual chapters of this manual.
3. Before putting the machine into operation familiarize yourselves with the machine controls as explained in the "Operator's Manual" and make sure that you are completely familiar with the machine.
4. Do not use the machine if you do not fully understand all controls and until this know how the machine works.
5. Familiarize yourself with the area where you will work.
6. Do not carry out any redesign work or modifications on the machine because you could compromise the safety of the equipment.
7. Original parts and accessories have been designed especially for this machine.
8. Installation and use of spare parts not supplied by the manufacturer of the machine or not authorized by them can have negative effects on operational characteristics and safe operation of the machine.
7. Attach a "Do not operate" warning note to the steering wheel and leave it there for the duration of the service work.
8. Wash the equipment thoroughly. If you use steam, do not expose electrical components and insulation directly to the steam, otherwise cover them beforehand.
9. Keep all parts absolutely clean when dismantling, mounting, and servicing each assembly. Protect removed parts from getting soiled.
10. Clean the surface of dismantled parts and do the necessary to ensure adequately dust-free working conditions and a suitable storage area.
11. Be careful when handling cleaning agents. Do not use fuel or other easy inflammable materials for cleaning.
12. Dry the cleaned parts and immediately cover with anti-corrosive protective oil, never install corroded parts.
13. Tools, hoists, safety equipment on chains, and other additional items must be serviceable and in good condition.
14. Use hoists and fasteners (ropes, chains) that have sufficient lifting capacity and are in good condition.
15. Make sure that there is enough fresh air supply when starting up the equipment in an enclosed area.

REPAIRING AND INSPECTING THE MACHINE

1. Wear working clothes and boots.
2. Use gloves when handling oils, fuel or coolant.
3. Protect your eyes with a full face shield when handling the battery.
4. Place the equipment on a flat and firm surface before starting repair. Secure the machine to prevent spontaneous movement.
5. Secure the frame of the machine and the drum to prevent rotation using a locking pin and a draw bar.
6. Before starting work remove the starter switch key, disconnect the batteries and let hot parts cool down.

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$